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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/25/2009

Stevens Davis Miller & Mosher Suite 850 1615 L Street NW Washington, DC 20036

EXAMINER				
TORRES, JUAN A				
ART UNIT	PAPER NUMBER			

2611 DATE MAILED: 02/25/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530.368	04/06/2005	Hiroaki Sudo	L9289.05120	2711

TITLE OF INVENTION: MULTI-CARRIER TRANSMITTING APPARATUS AND MULTI-CARRIER TRANSMITTING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Washington, DC	20036							(Depositor's name)
								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/530,368	04/06/2005		Hiroaki Sudo				L9289.05120	2711
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	05/26/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	3				
TORRES.	, JUAN A	2611	375-295000					
. Change of correspondence address or indication of "Fee Address" (37 :FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a registered attorney 2 registered patent	ames of up to 3 registered patent attorneys OR, alternatively, ame of a single firm (having as a member a d attorneys or agent) and the names of up to red patent attorneys or agents. If no name is name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comj GNEE	oletion of this form is NO	data will appear on t T a substitute for filing (B) RESIDENCE: (C	he pa g an a CITY	tent. If an assignussignment. and STATE OR C	OUNT	TRY)	cument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	<u> </u>	Individual 🖵 Co	rporati	on or other private gro	up entity Government
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OTE: The Issue Fee an	d Publication Fee (if rea		d from anyone other th		_			e assignee or other party in
Authorized Signature					Date			
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,368 04/06/2005 Hiroaki Sudo		Hiroaki Sudo	L9289.05120	2711
75	590 02/25/2009		EXAM	INER
Stevens Davis Miller & Mosher		TORRES, JUAN A		
Suite 850			ART UNIT	PAPER NUMBER
1615 L Street NW Washington, DC 20036			2611	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 855 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 855 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
Notice of Allowability	10/530,368 Examiner	SUDO, HIROAKI Art Unit	
•			
	JUAN A. TORRES	2611	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS . This application is	in this application. If not included nunication will be mailed in due course.	
1. 🔀 This communication is responsive to Amendment/Reg. Re	consideration-After Non-F	nal Reject filed on 01/08/2009.	
2. The allowed claim(s) is/are 38-46 (renumbered 1-9).			
 3. Acknowledgment is made of a claim for foreign priority unersulation. a) All b) Some* c) None of the: 1. Certified copies of the priority documents have) or (f).	
2. Certified copies of the priority documents have	e been received in Applicat	ion No	
Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application fror	m the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requireme	ents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT)
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of	nformal Patent Application	
Notice of References Cited (FTO-092) Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
· · · · · · · · · · · · · · · · · · ·	Paper No	o./Mail Date	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	/. ⊠ Examiner	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowance	
	9.	<u> </u>	
/Juan A Torres/			
Primary Examiner, Art Unit 2611			

DETAILED ACTION

Drawings

The modifications to the drawings were received on 01/08/2009. These modifications are accepted by the Examiner.

In view of the amendment filed on 01/08/2009, the Examiner withdraws Drawing objections of the previous Office action.

Specification

The modifications to the specification were received on 01/08/2009. These modifications are accepted by the Examiner.

In view of the amendment filed on 01/08/2009, the Examiner withdraws Specification objections of the previous Office action.

Claim Rejections - 35 USC § 112

The modifications to the claims were received on 01/08/2009. These modifications are accepted by the Examiner.

In view of the amendment filed on 01/08/2009, the Examiner withdraws claim rejections under 35 USC § 112 second paragraph to claims 24-28 of the previous Office action.

Claim Rejections - 35 USC § 101

The modifications to the claims were received on 01/08/2009. These modifications are accepted by the Examiner.

In view of the amendment filed on 01/08/2009, the Examiner withdraws claim rejections under 35 USC § 101 to claims 31-37 of the previous Office action.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In line 3 of claim 39 the recitation "said subcarrier selection section" is changed to "said subcarrier allocation section"

Allowable Subject Matter

Claims 38-46 (renumbered 1-9) are allowed.

The following is an examiner's statement of reasons for allowance: claims 38-46 (renumbered 1-9) are allowed because a comprehensive search of prior art failed to teach, either alone or in combination, a multicarrier transmitting apparatus comprising a dividing section that divides transmit data into high-quality transmit data requiring good quality and ordinary transmit data other than said high-quality transmit data; a subcarrier allocation section that rearranges said high-quality transmit data and said ordinary transmit data such that said high-quality transmit data is allocated to subcarriers in a vicinity of a center frequency in a predetermined frequency domain and said ordinary transmit data is allocated to subcarriers in a vicinity of both ends in the predetermined frequency domain, and that varies in accordance with channel quality a range of subcarriers to which said high-quality transmit data is allocated and a range of subcarriers to which said ordinary transmit data is allocated; and an orthogonal

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frequency division section that performs orthogonal frequency division multiplexing of said high-quality transmit data and said ordinary transmit data rearranged by said subcarrier allocating section, as the applicant has claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JUAN A. TORRES whose telephone number is (571)272-3119. The examiner can normally be reached on 8-6 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Juan Alberto Torres 02/17/2009

/Juan A Torres/ Primary Examiner, Art Unit 2611